

WHAT IS CLAIMED IS:

1 1. A power generating wind turbine comprising a nacelle
2 installed on a tower, said nacelle comprising therein or thereon a
3 main shaft to which a wind turbine rotating blade is fitted, a gear-
4 box by which a rotation of said main shaft is speeded up to be put
5 out and a generator driven by an output of said gear-box, wherein
6 said main shaft is connected to an end of an input shaft of said gear-
7 box and is supported to said nacelle via a single double-row tapered
8 roller bearing.

1 2. A power generating wind turbine comprising a nacelle
2 installed on a tower, said nacelle comprising therein or thereon a
3 main shaft to which a wind turbine rotating blade is fitted, a gear-
4 box by which a rotation of said main shaft is speeded up to be put
5 out and a generator driven by an output of said gear-box, wherein
6 said main shaft is connected to an end of an input shaft of said gear-
7 box and is supported to said nacelle via a single three-row roller
8 bearing comprising a row of rollers receiving a radial load and a pair
9 of rows of rollers receiving a thrust load.

1 3. A power generating wind turbine as claimed in Claim 1 or
2 2, wherein said main shaft is formed in an annular shape or a disk
3 shape having its outer diameter made larger than its axial directional
4 length.

1 4. A power generating wind turbine as claimed in Claim 1 or
2 2, wherein said main shaft and said input shaft of said gear-box are

3 connected to each other via a coupling.

1 5. A power generating wind turbine as claimed in Claim 3,
2 wherein said main shaft and said input shaft of said gear-box are
3 connected to each other via a coupling.